

OIPE

RAW SEQUENCE LISTING DATE: 05/20/2002 PATENT APPLICATION: US/10/076,674A TIME: 14:16:22

Input Set : N:\Crf3\05072002\J076674.raw
Output Set: N:\CRF3\05202002\J076674A.raw

1 <110> APPLICANT: Sokoll, Kenneth K.

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2 <120> TITLE OF INVENTION: Stabilized Synthetic Immunogen Delivery System
 3 <130> FILE REFERENCE: Immunogen Delivery System
 4 <140> CURRENT APPLICATION NUMBER: US/10/076,674A
 5 <141> CURRENT FILING DATE: 2002-04-23
                                                          ENTERED
 6 <160> NUMBER OF SEQ ID NOS: 11
 7 <170> SOFTWARE: PatentIn version 3.1
 9 <210> SEQ ID NO: 1
10 <211> LENGTH: 32
11 <212> TYPE: DNA
12 <213> ORGANISM: Artificial Sequence
13 <220> FEATURE:
14 <223> OTHER INFORMATION: synthetic oligonucleotide
15 <400> SEQUENCE: 1
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19 <211> LENGTH: 24
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: synthetic oligonucleotide
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <222> LOCATION: (1)..(1)
27 <223> OTHER INFORMATION: n indicates phosphorothioate group
28 <400> SEQUENCE: 2
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31 <210> SEQ ID NO: 3
32 <211> LENGTH: 24
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: synthetic oligonucleotide
37 <400> SEQUENCE: 3
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40 <210> SEQ ID NO: 4
41 <211> LENGTH: 50
42 <212> TYPE: PRT
43 <213> ORGANISM: Human
44 <220> FEATURE:
45 <221> NAME/KEY: misc_feature
46 <222> LOCATION: (20)..(20)
47 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
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```
48 <400> SEQUENCE: 4
              Ile Ser Ile Thr Glu Ile Lys Gly Val Ile Val His Arg Ile Glu Thr
     49
     50
W--> 51
              Ile Leu Phe Xaa Cys Asn Gln Gly Ser Phe Leu Thr Lys Gly Pro Ser
     52
              Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg Ser Leu Trp Asp Gln Gly
     53
     54
                                           40
     55
              Asn Cys
     56
                   50
     58 <210> SEQ ID NO: 5
     59 <211> LENGTH: 50
     60 <212> TYPE: PRT
     61 <213> ORGANISM: Human
     62 <220> FEATURE:
     63 <221> NAME/KEY: misc_feature
     64 <222> LOCATION: (20)..(20)
     65 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
     66 <400> SEQUENCE: 5
     67
              Lys Lys Lys Thr Asp Arg Val Ile Glu Val Leu Gln Arg Ala Gly Arg
     68
W--> 69
              Ala Ile Leu Xaa Cys Asn Gln Gly Ser Phe Leu Thr Lys Gly Pro Ser
     70
                          20
                                               25
     71
              Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg Ser Leu Trp Asp Gln Gly
     72
                                           40
     73
              Asn Cys
                  50
     76 <210> SEQ ID NO: 6
     77 <211> LENGTH: 31
     78 <212> TYPE: PRT
     79 <213> ORGANISM: Human
     80 <220> FEATURE:
     81 <221> NAME/KEY: misc_feature
     82 <222> LOCATION: (20)..(20)
     83 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
     84 <400> SEQUENCE: 6
     85
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     86
                                                   10
W--> 87
              Ile Leu Phe Xaa Cys His Ala Ser Ile Tyr Asp Phe Gly Ser Cys
     88
                          20
                                               25
     90 <210> SEQ ID NO: 7
     91 <211> LENGTH: 27
     92 <212> TYPE: PRT
     93 <213> ORGANISM: Human
     94 <400> SEQUENCE: 7
     95
              Lys Lys Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
     96
                              5
     97
              Leu Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
     98
     100 <210> SEQ ID NO: 8
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Input Set: N:\Crf3\05072002\J076674.raw
Output Set: N:\CRF3\05202002\J076674A.raw

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101 <211> LENGTH: 45
     102 <212> TYPE: PRT
     103 <213> ORGANISM: Human
     104 <400> SEQUENCE: 8
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     106
                                                    10
               Gly Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
     107
     108
                                               25
     109
               Glu Gly Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
     110
                                           40
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     113 <211> LENGTH: 45
     114 <212> TYPE: PRT
     115 <213> ORGANISM: Human
     116 <400> SEQUENCE: 9
     117
               Thr Ala Lys Ser Lys Lys Phe Pro Ser Tyr Thr Ala Thr Tyr Gln Phe
     118
                                                   10
     119
               Gly Gly Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly
     120
                                               25
     121
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     122
                       35
                                           40
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     125 <211> LENGTH: 44
     126 <212> TYPE: PRT
     127 <213> ORGANISM: Human
     128 <220> FEATURE:
    129 <221> NAME/KEY: misc_feature
    130 <222> LOCATION: (19)..(19)
     131 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
     132 <400> SEQUENCE: 10
     133
               Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Thr
     134
                                                   10
               Ile Asp Xaa Cys Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro His
W--> 135
     136
                                               25
               Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Cys
     137
    138
                       35
     140 <210> SEQ ID NO: 11
     141 <211> LENGTH: 45
    142 <212> TYPE: PRT
    143 <213> ORGANISM: Human
    144 <220> FEATURE:
    145 <221> NAME/KEY: misc_feature
    146 <222> LOCATION: (20)..(20)
    147 <223> OTHER INFORMATION: Xaa indicates epsilon-Lys
    148 <400> SEQUENCE: 11
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    149
    150
                                                   10
W--> 151
               Ile Leu Phe Xaa Cys Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro
    152
```

RAW SEQUENCE LISTING

DATE: 05/20/2002

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Input Set : N:\Crf3\05072002\J076674.raw
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153	His Leu	Pro Arg	Ala Leu	Met	Arg	Ser	Thr	Thr	Lys	Cys
154		35			40				_	45

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/076,674A

DATE: 05/20/2002 TIME: 14:16:23

Input Set : N:\Crf3\05072002\J076674.raw
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 20
Seq#:5; Xaa Pos. 20
Seq#:6; Xaa Pos. 20
Seq#:10; Xaa Pos. 19
Seq#:11; Xaa Pos. 20

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/076,674A
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Input Set : N:\Crf3\05072002\J076674.raw
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L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16

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STATISTICS SUMMARY

PATENT APPLICATION: US/10/076,674A

DATE: 05/20/2002 TIME: 14:16:23

Input Set : N:\Crf3\05072002\J076674.raw
Output Set: N:\CRF3\05202002\J076674A.raw

Application Serial Number: US/10/076,674A

Alpha or Numeric: Numeric

Application Class:

Application File Date: 04-23-2002

Art Unit: OIPE

Software Application: PatentIN3.1 Total Number of Sequences: 11

Total Nucleotides: 80 Total Amino Acids: 337 Number of Errors: 0 Number of Warnings: 5 Number of Corrections: 0

MESSAGE SUMMARY

341 W: 5 ((46) "n" or "Xaa" used)